

SGV SERIES

UPGRADE

105°C Standard

- Load Life : 105°C 2000~5000 hours.
- AEC-Q200.
- High Temperature Reflow soldering is available. (JGV series)
(http://www.rubycon.co.jp/catalog/j_pdfs/aluminum/j_JGV.pdf)



RoHS compliance



SPECIFICATIONS

Items	Characteristics																																															
Category Temperature Range	-55~+105℃				-40~+105℃				-25~+105℃																																							
Rated Voltage Range	6.3~50Vdc				63, 100Vdc				160~450Vdc																																							
Capacitance Tolerance	±20% (20℃, 120Hz)																																															
Leakage Current(MAX)	6.3~100Vdc						160~450Vdc																																									
	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)						I=0.04CV+100μA (1 minute) I=0.02CV+25μA (5minutes)																																									
	I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																																															
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160~250</td><td>400</td><td>450</td></tr><tr><td rowspan="2">tanδ</td><td>φ4,φ5,φ6.3×6.1</td><td>0.30</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>φ6.3×8,φ8~φ18</td><td>0.35</td><td>0.26</td><td>0.24</td><td>0.18</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.15</td><td>0.20</td><td></td></tr></table>												Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160~250	400	450	tanδ	φ4,φ5,φ6.3×6.1	0.30	0.24	0.20	0.16	0.14	0.12	-	-	-	-	φ6.3×8,φ8~φ18	0.35	0.26	0.24	0.18	0.14	0.12	0.10	0.15	0.20		
	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160~250	400	450																																				
	tanδ	φ4,φ5,φ6.3×6.1	0.30	0.24	0.20	0.16	0.14	0.12	-	-	-	-																																				
φ6.3×8,φ8~φ18		0.35	0.26	0.24	0.18	0.14	0.12	0.10	0.15	0.20																																						
When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.																																																
Endurance	After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements.																																															
	Capacitance Change		Within ±25% of the initial value.							Rated Voltage (Vdc)		Life Time (hrs)																																				
	Dissipation Factor		Not more than 200% of the specified value.							6.3~100		2000																																				
	Leakage Current		Not more than the specified value.							160~450		5000																																				
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160~250</td><td>400</td><td>450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>6</td><td></td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>8</td><td>8</td><td>4</td><td>4</td><td>3</td><td>3</td><td>5</td><td>5</td><td>-</td><td>-</td><td></td></tr></table>												Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160~250	400	450	Z(-25℃)/Z(20℃)	4	3	2	2	2	2	2	2	3	6		Z(-40℃)/Z(20℃)	8	8	4	4	3	3	5	5	-	-	
	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160~250	400	450																																				
	Z(-25℃)/Z(20℃)	4	3	2	2	2	2	2	2	3	6																																					
Z(-40℃)/Z(20℃)	8	8	4	4	3	3	5	5	-	-																																						
(120Hz)																																																

MULTIPLIER FOR RIPLE CURRENT

Frequency(Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.47~1μF	0.50	1.00	1.20	1.30	1.50
	2.2~6.8μF	0.65	1.00	1.20	1.30	1.50
	10~68μF	0.80	1.00	1.20	1.30	1.50
	100~1000μF	0.80	1.00	1.10	1.15	1.20
	2200~6800μF	0.80	1.00	1.05	1.10	1.15

PART NUMBER

□□□ SGV □□□□□ M □□□ D×L
 Rated Voltage Series Capacitance Capacitance Tolerance Option Case Size

DIMENSIONS

(mm)

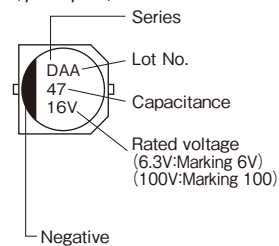
φD	L	A1	B1	C	W1	P	K	α
4	6.1	4.3	4.3	1.8	0.5~0.8	1.0	0.5 MAX	0
5	6.1	5.3	5.3	2.2	0.5~0.8	1.3	0.5 MAX	0
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5 MAX	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5 MAX	※1
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5 MAX	※1
12.5	13.5	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5

※1: α dimensions

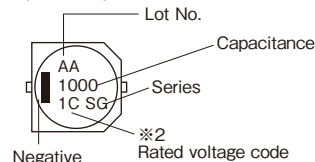
Rated Voltage	α
6.3~100	0
160~400	0.2

MARKING

〈φ4~φ10〉



〈φ12.5~φ18〉



※2 Voltage code

Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	400	450
Rated Voltage code	0J	1A	1C	1E	1V	1H	1J	2A	2C	2D	2E	2G	2W

◆ STANDARD SIZE

 Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./105°C, 120Hz)

Vdc	Cap (μF)	Size (φDXL)	Ripple	Vdc	Cap (μF)	Size (φDXL)	Ripple	Vdc	Cap (μF)	Size (φDXL)	Ripple	
6.3	22	4×6.1	26	35	4.7	4×6.1	15	160	12	8×10.5	115	
	33	4×6.1	29		10	5×6.1	28		22	10×10.5	150	
	47	5×6.1	46		22	6.3×6.1	55		39	12.5×13.5	250	
	100	6.3×6.1	71		33	6.3×8	76		47	12.5×16	310	
	220	6.3×8	121			8×6.5	84		68	16×16.5	400	
	470	8×10.5	210		100	8×10.5	180		100	18×16.5	480	
	1000	10×10.5	495			10×10.5	305		120	16×21.5	560	
		12.5×13.5			450	150	18×21.5		690			
	2200	12.5×16	750			200	10	8×10.5	100			
	3300	16×21.5	930		330		12.5×16	460	15	10×10.5	130	
18×16.5		470		16×16.5	490		33	12.5×13.5	230			
4700	18×21.5	1200	1000	16×21.5	750		42	12.5×16	270			
6800	18×21.5	1350		18×16.5			56	16×16.5	350			
10	33	5×6.1	43	50	0.47		4×6.1	4	250	10	8×10.5	100
	100	6.3×6.1	71		1		4×6.1	8		15	10×10.5	130
	330	8×10.5	195		2.2		4×6.1	11		33	12.5×13.5	230
	470	8×10.5	210		3.3	4×6.1	14	42		12.5×16	270	
		10×10.5	440		4.7	5×6.1	19	56		16×16.5	350	
	1000	12.5×16	500		10	6.3×6.1	35	68		18×16.5	440	
	2200	16×16.5	810		22	6.3×8	67	100		16×21.5	500	
	3300	16×21.5	1000			8×6.5	70	120		18×21.5	620	
		18×16.5			33	8×10.5	140	6.8	8×10.5	85		
	4700	18×21.5	1200		47	8×10.5	167	12	10×10.5	115		
16	10	4×6.1	28	10×10.5		180	22	12.5×13.5	190			
	22	5×6.1	39	100	8×10.5	230	33	12.5×16	240			
	47	6.3×6.1	70		10×10.5	315	47	16×16.5	320			
	100	6.3×8	111	220	12.5×16	380	56	18×16.5	400			
	220	8×10.5	185	330	16×16.5	470	68	16×21.5	450			
	330	8×10.5	290	470	16×21.5	550	100	18×21.5	560			
		10×10.5	440		2.7		8×10.5	45				
	470	8×10.5	320	1000	18×21.5	820	4.7	10×10.5	75			
		10×10.5	460		10	12.5×13.5	135					
	1000	16×16.5	630	63	22	8×10.5	55	12	12.5×16	165		
2200	16×21.5	930	33		8×10.5	115	18	16×16.5	220			
	18×16.5		47		8×10.5	120	22	18×16.5	280			
3300	18×21.5	1150	100		12.5×16	225	33	16×21.5	320			
	470		16×16.5		385	47	18×21.5	400				
25	33	6.3×6.1	65		330	16×21.5	490	450	6.8	12.5×13.5	110	
	47	6.3×8	79			8.2			12.5×16	150		
	100	8×6.5	91		470	18×21.5	590		12	16×16.5	195	
		8×10.5	180	10		8×10.5	65		18	18×16.5	245	
	220	8×10.5	320	100	22	10×10.5	90		22	16×21.5	275	
		10×10.5	355		33	10×10.5	135		27	18×21.5	345	
	330	10×10.5	450		47	12.5×13.5	160					
		12.5×13.5			100	16×16.5	285					
	470	10×10.5	490		220	16×21.5	440					
	1000	16×21.5	700			18×16.5						
2200	18×21.5	1050										
3300	18×21.5	1700										

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Rubycon:

[100SGV33M10X10.5](#) [100SGV47M12.5X13.5](#) [160SGV120M16X21.5](#) [10SGV330M8X10.5](#) [35SGV33M6.3X8](#)
[400SGV2R7M8X10.5](#) [50SGV3R3M4X6.1](#) [6.3SGV1000M12.5X13.5](#) [200SGV15M10X10.5](#) [250SGV12M10X10.5](#)
[250SGV33M12.5X16](#) [25SGV100M8X10.5](#) [35SGV1000M16X21.5](#) [35SGV22M6.3X6.1](#) [25SGV3300M18X21.5](#)
[35SGV470M16X16.5](#) [35SGV4R7M4X6.1](#) [450SGV6R8M12.5X13.5](#) [63SGV220M16X16.5](#) [10SGV100M6.3X6.1](#)
[100SGV22M10X10.5](#) [160SGV22M10X10.5](#) [16SGV330M10X10.5](#) [200SGV68M18X16.5](#) [25SGV220M10X10.5](#)
[25SGV220M8X10.5](#) [63SGV22M8X10.5](#) [35SGV100M10X10.5](#) [35SGV10M5X6.1](#) [50SGV220M12.5X16](#)
[50SGV22M8X6.5](#) [6.3SGV3300M16X21.5](#) [6.3SGV470M8X10.5](#) [63SGV330M16X21.5](#) [63SGV33M8X10.5](#)
[6.3SGV6800M18X21.5](#) [6.3SGV47M5X6.1](#) [63SGV100M12.5X16](#) [50SGV0R47M4X6.1](#) [50SGV470M18X16.5](#)
[50SGV47M10X10.5](#) [50SGV47M8X10.5](#) [50SGV4R7M5X6.1](#) [6.3SGV33M4X6.1](#) [25SGV2200M18X21.5](#)
[160SGV150M18X21.5](#) [160SGV39M12.5X13.5](#) [400SGV47M18X21.5](#) [35SGV33M8X6.5](#) [400SGV4R7M10X10.5](#)
[450SGV33M18X21.5](#) [50SGV1M4X6.1](#) [50SGV1000M18X21.5](#) [50SGV100M8X10.5](#) [50SGV330M16X16.5](#)
[16SGV330M8X10.5](#) [50SGV2R2M4X6.1](#) [6.3SGV100M6.3X6.1](#) [63SGV330M18X16.5](#) [200SGV100M16X21.5](#)
[250SGV6R8M8X10.5](#) [35SGV220M10X10.5](#) [6.3SGV4700M18X21.5](#) [63SGV470M18X21.5](#) [6.3SGV2200M12.5X16](#)
[6.3SGV220M6.3X8](#) [6.3SGV22M4X6.1](#) [63SGV47M8X10.5](#) [16SGV470M8X10.5](#) [200SGV42M12.5X16](#)
[25SGV33M6.3X6.1](#) [400SGV33M18X21.5](#) [450SGV18M18X16.5](#) [6.3SGV1000M10X10.5](#) [450SGV15M16X16.5](#)
[35SGV1000M18X16.5](#) [35SGV100M8X10.5](#) [400SGV15M12.5X16](#) [450SGV10M12.5X16](#) [50SGV22M6.3X8](#)
[400SGV27M18X16.5](#) [50SGV100M10X10.5](#) [50SGV10M6.3X6.1](#) [400SGV10M12.5X13.5](#) [400SGV22M16X16.5](#)
[35SGV220M12.5X13.5](#) [50SGV33M8X10.5](#) [50SGV470M16X21.5](#) [400SGV33M16X21.5](#) [450SGV22M16X21.5](#)
[6.3SGV3300M18X16.5](#) [35SGV330M12.5X16](#) [25SGV470M10X10.5](#) [200SGV33M12.5X13.5](#) [200SGV56M16X16.5](#)
[250SGV22M12.5X13.5](#) [25SGV1000M18X16.5](#) [250SGV100M18X21.5](#) [25SGV47M8X6.5](#) [16SGV1000M16X16.5](#)

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9